INDEX.

A

Acalypha dissitiflora, 148.
flavescens, 149.
(Linostachys) longipes, 149.
multispicata, 148.
Acetoacetic ether on quinones, the
action of, 295.

Agave (Manfreda) brunnea, 156. (Littæa) Hartmani, 156. American Botany, contributions to, by Sereno Watson, 124.

Amidoxyoxindol, properties of the chloride of, 96.

Anilidotrinitrophenylmalonic ester, 88.

nitrite of, 77. properties, 78.

Anilidotrinitrophenyltartronic ester, 82.

red modification, 83. yellow modification, 84.

Anilidotrinitrotartronic ester, salts of, 86.

Anilidotrinitrotoluol, sodium salt of, 79.

Arabis Macounii, 124. Archætogeron linearifolius, 139. Arethusa grandiflora, 154. Argemone Mexicana, 162.

Aristolochia nana, 145. Arracacia Mariana, 136.

multifida, 136.

Arsenic, quantitative determination
of same in wall papers and
fabrics, 24.

Ascension, notes upon a collection of plants from the island of, 161.

Asplenium Ascensionis, 163. Aster carnerosanus, 139. Engelmanni, Gray, 176. Atomic weight of copper, a revision of the, 240. Ayena Berlandieri, 133.

Ayena Berlandieri, 133 Jaliscana, 133.

B.

Bacterium of Kern's milk-ferment, Dispora Caucasica, 104. Bahia Schaffneri, 142.

Bassovia Mexicana, 171.

Begonia (Weilbachia) Pringlei, 136. Benzofurfuran derivative, 298, 299.

derivatives from quinone and acetoacetic ether, 306. derivatives, synthesis of, 295.

Benzo-p-difurfuran a-dimethyl β-dicarboxylic ether, 307.

Bidens dahlioides, 142. pilosa, 162.

Biographical notices, list of, 337.
George Bancroft, 355.
Henry Jacob Bigelow, 339.
Charles Otis Boutelle, 351.
Julius Erasmus Hilgard, 370.
Alfred Hosmer, 354.
Charles John Maximowicz, 374.

Karl Wilhelm von Naegeli, 376. Christian Heinrich Friedrich Peters, 373.

Eduard Schönfeld, 381. Bletia Palmeri, 153.

Boerhaavia octandra, 145.
Botany, American, contributions
to, by Sereno Watson, 124.

Bromdinitrophenylmalonic ester, nitrite of, 93.

Bromtrinitrophenylmalonic ester, on the products obtained by the action of nitric acid upon, 67. Bromtrinitrophenylmalonic ester, preparation of the nitrite of, 72.

properties of the nitrite of, 74.
Bromtrinitrophenyltartronic ester, 80.
Buddleia Chapalana, 169.
Bunchosia Pringlei, 133.
Burrillia, gen. nov., 18.

C.

Cacalia (Conophora) poculifera, 143. Campylopus introflexus, Brid., 163. Castilicia macrostigma, 173. Chamædorea Pringlei, 157. Chimelia Pringlei, 137 Chloracetoacetic ether, 299. Choreocolax Polysiphoniæ, on the structure and development of, 46. Chromite in Kiowa County pallasite, 6. Citharexylum Berlandieri, 174. Cladothrix cryptantha, 125. Cnicus linearifolius, 143. velatus, 143. Cologania Jaliscana, 136. Commelina nudiflora, L. 162. Communications, Carl Barus, 313. Oliver Whipple Huntington, 1. M. Ikuta, 295. C. Loring Jackson and W. B. Bentley, 67, 98. Charles L. Mix, 102. B. O. Peirce, 20, 218. Herbert Maule Richards, 46. Theodore William Richards, 240.B. L. Robinson, 164. Charles R. Sanger, 24. William Albert Setchell, 13, 177. Henry Taber, 64. John Trowbridge, 115. Sereno Watson, 124. Copper, a revision of the atomic weight of, 240. Corelia Pringlei, 169. Cornuella, gen. nov., 19. Croton (Eucroton) calvescens, 147. (Eutropia) elæagnoides, 147. Crusea megalocarpa, 137. Cupric oxide, occluded gas in, 284. the analysis of, 276.

Cupric sulphate, action of heat upon, 265. the analysis of, 244. Cyperus umbellatus, Benth., 162.

D.

Dahlia dissecta, 141.

pubescens, 142. Dasylirion interme, 157. Desmodium amans. 135. Jaliscanum, 164. subspicatum, 135. Diacetylsuccinic ether, 298. a-dime-Dichlorbenzo-p-difurfuran thyl β -dicarboxylic ether, 302. acid, 303. Dichlorhydroquinonediacetoacetic ether, 301, 302. Dichlorquinonediacetoacetic ether, 300, 305. addition products of, 303. Dicranella, 163 Disodium salt, 86. Doassansia, Cornu, preliminary notes on the species of, 13. Alismatis, Cornu, 16. Comari, De Toni, 18. deformans, sp. nov., 17. Epilobii, Farlow, 15. Hottoniæ, De Toni, 15 Lythropsidis, Lagerh., 18. Martianoffiana, Schroeter, 17. obscura, 16. occulta, var. Farlowi, 17. opaca, sp. nov., 15. punctiformis, Winter, 18. Sagittariæ, Fisch., 15. Doassansiopsis, 16.

E.

Echeandia nodosa, 156.
Ehretia Mexicana, 144.
Electric flow in flat circular plates,
on some simple cases of, 218.
Electrical oscillations on iron wires,
dampening of, 115.
Equation, matrical, on the, 64.
Eriocaulon Jaliscanum, 157.
Eriogonum destricola, 125.
minutiflorum, 125.
Eryngium Mexicanum, 136.
Erysium arenicola, 124.

Erythronium, Linn., 126. albidum, Nutt., 128. Americanum, Ker., 127. Bolanderi, 129. citrinum, 130. giganteum, 129. grandiflorum, 128. Hartwegi, Watson, 129. Hendersoni, Watson, 130. Howellii, Watson, 130. mesochoreum, 128. montanum, 130. parviflorum, 129. propullans, 128. purpurascens, Watson, 130. revolutum, Smith, 129.

Ester, anilidotriniphenylmalonic, 88. anilidotrinitrophenyltartronic,

82. anilidotrinitrotartronic, 70. bromtrinitrophenylmalonic, 67. bromtrinitrophenyltartronic, 80. bromtrinitrotartronic, 67.

Eudoassansia, 14. Eupatorium Chapalense, 138. espinosarum, Gray, 165. Madrense, 137.

Euphorbia digitata, 146. misella, 146. origanoides, L., 162. subpeltata, 146.

F.

Fabrics, quantitative determination of arsenic in, 24.
Fellows, Associate, deceased, —
George Bancroft, 334.
John Charles Fremont, 334.
Christian Henry Friedrich Pe-

ters, 334.
Fellows, Associate, elected, —
Henry Newell Martin, 327.
Fellows, Associate, list of, 387.

Fellows, Associate, 188 of, 567.
Fellows, Resident, deceased, —
Henry Jacob Bigelow, 334.
Charles Otis Boutelle, 334.
William Prescott Dexter, 334.

Fellows, Resident, elected, —
Arthur Messinger Comey, 332.
Charles Edward Munroe, 332.
John Ulric Nef, 332.
Theodore William Richards,

332. Charles Robert Sanger, 332. Fellows, Resident, list of, 384.
Ferment, milk, Kern's, 102.
Ficus fasciculata, Watson, 152.
Guadalajarana, 151.
Jaliscana, 150.
Pringlei, 150.
radulina, 151.
Foreign Honorary Members, elect

Foreign Honorary Members, elected, Sir William Bowman, Bart., 330. Sir Henry Enfield Roscoe, 327. Foreign Honorary Members, list of, 389.

G.

Gamopetalæ, descriptions of new plants in Mexico, chiefly, 164. Gerardia punctata, 172. Gonolobus parviflorus, 169. Govenia elliptica, 153. Gymnogramme Ascensionis, 163. Gymnolomia decumbens, 165.

H.

Habenaria filifera, 154. Hechtia pedicellata, 155. Heliotropium Pringlei, 170. Herpestis auriculata, 172.

I.

Integrals, line and surface, on some theorems which connect, 20. Ipomœa Leonensis, 170. Isocarbopyrotritaric ether, 298. Isometrics, the, 320.

J.

Juglans Mexicana, 152. Justicia Pringlei, 173.

K.

Kephir-like yeast, found in the United States, 102.
Kern's milk ferment, 102.
Kiowa County pallasites, Prehistoric and, 1.
compared with Krasnojarsk, 8.
Krasnojarsk pallasite, compared

Krasnojarsk pallasite, compared with Prehistoric and Kiowa County, 8.

T.

Lactuca scariola, L., 162. Laurentia ovatifolia, 166. Lejeunia pterota, Taylor, 163. Lobelia novella, 167. Lycopodium cernuum, L., 162.

M.

Manihot Pringlei, 148.

Matrical equation, on the, 64.

Melampodium (Unxia) bibracteatum, 140.
glabrum, 139.

Microstylis (Dienia) tenuis, 152.

Milk-ferment, Kern's, 102.

Mimulus Congdonii, 175.
(Eumimulus) filicaulis, 125.
gracilipes, 176.

Molecular pressure, note on the variation of, 313.

Monopotassium salt, 86.

Myriocarpa Mexicana, 152.

N.

Nasturtium bracteatum, 131. Nemacladus oppositifolius, 168. Neopringlea, 134. integrifolia, 135. Nephrodium (?) viscidum, 163.

0.

Oligonema, 138.
heterophylla, 138.
Olivine crystals in pallasites, 2.
Omphalodes acuminata, 170.
Oscillations, electrical, dampening of, on iron wires, 115.
Otopappus acuminatus, 140.
alternifolius, 165.
Oxalis corniculata, L., 162.
Oxide, cupric, the analysis of, 276.
occluded gas in, 284.
Oxybenzofurfuran α-dimethyl β-carboxylic ether, 309.

P.

Pallasites, the Prehistoric and Kiowa County, 1. table of, 9.

Parmelia saxatilis, Ach., 163. Peperomia Jaliscana, 145. Perezia collina, 144. Phyllanthus Pringlei, 147. Pilea glabra, 152. Pimpinella Mexicana, 164. Piper (Enckea) Jaliscanum, 145. Pogonia (Triphora) Mexicana, 154. Polygala sublata, 132. Prehistoric pallasite, having the oldest authentic record, 1 compared with those of Krasnojarsk and Kiowa County, 8. Pseudodoassansia, 16. Psilactis tenuis, 139. Pteris flabellata, Thunb., 162. incisa, Thunb., 162.

Q.

Quinone p-difurfuran a-dimethyl βdicarboxylic ether dihydrochloride, 304. Quinones, the action of acetoacetic ether on, 295.

R.

Ranunculus vagans, 131. Rhacopilum gracile, Mitt., 163. Rubus nanus, 162. Ruellia Bourgæi, Hemsley, 173.

S.

Saccharomyces cerevisiæ, Meyen, 111, 113. galacticola, Pirotta, 110, 113. kefyr, Beyerinck, 107, 110. lactis, 110 Tyrocola, 110. Saccorhiza dermatodea, concerning the life-history of, 177. Salmea Palmeri, 141 Sargentia Pringlei, 134. Schultesia Mexicana, 144. Scutellaria hispidula, 174. Sebastiania Pringlei, 149. Senebiera didyma, Pers., 162. Senecio Guadalajarensis, 166. Jaliscana, 143. Sida Alamosana, 133. Silene Macounii, 124. Sisymbrium multiracemosum, 132.

Sisyrinchium platyphyllum, 155. Sodium phenolate, 299. Spilanthes Botterii, 141. Spiranthes Jaliscana, 153. Pringlei, 153. Styrax Jaliscana, 144. Sulphur, the atomic weight of, 268. Symplocos Pringlei, 168.

T.

- Talinum Coahuilense, 132. Theloschistes crysophthalma, 163. Thermal capacity, volume relations of, 323.
- Thymol, compressibility of, 321. expansion of, 315. specific heat of solid and liquid,
- 317.
 Tillandsia cylindrica, 155.
 Pringlei, 155.
- Tithonia macrophylla, 140. Tradescantia Pringlei, 157. Tribrommononitrobenzol, note on,
- 98. Tribromtrinitrobenzol, preparation of, 71.
- Trichlorhydroquinoneacetoacetic ether, 296, 298. Trichlor p-oxybenzofurfuran g-m
- Trichlor p-oxybenzofurfuran a-methyl β-carboxylic ether, 297. acid, 300.

- Trichlorquinoneacetoacetic ether, 295.
- Trinitrophenylenedimalonic ester, nitrite of, 90.

v.

Viguiera leptocaulis, 140.

W.

Wall papers, quantitative determination of arsenic in, 24.
Widmanstättian figures in pallasites, 6.
Withania melanocystis, 171.

x.

Xanthoxylum Pringlei, 134. Xylosma Pringlei, 164.

Y.

Yeast, Kephir-like, found in the United States, 102.

Z.

Zea, a wild species from Mexico, 158.